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from auction theory for computational **resource allocation** [28, 9, 19]in computerized Institute
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items is performed, it is often desirable to allow **bids** on combinations of items, as opposed to only on
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at the core of systems for market- based **resource allocation** [2, 13, 16, 17, 18, 20]To sup- port our
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is based on an economic model in which customers "**bid**" for resources as a function of service volume and
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local Challenger agent broadcasts a "request for **bids**" to all the agents in the network (including
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relies on combinatorial auctions where agents **bid** for resource bundles, or simultaneous auctions for
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we are able to create a new design, the **Resource Allocation** Design #RAD# auction process, which the RAD auction achieves higher e#ciencies, lower **bid**der losses, and faster times to completion without to completion without increasing the complexity of a **bid**der's problem. 1 Introduction What is the best
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show promise as a useful tool for tackling **resource allocation** in AI. Unfortunately, winner have difficulty with problems involving goods and **bids** beyond the hundreds. We apply a new stochastic language for naturally expressing combinatorial **bids** in which a single logical **bid** corresponds to a
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model distributed scheduling as a discrete **resource allocation** problem, and demonstrate the applicability Agents make their own decisions about how to **bid** based on the prices and their own relative ffi Communication is limited to the exchange of **bids** and prices between agents and the market mech-
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to obtain good initial solutions for complex **resource allocation** problems. By introducing global Allocation in Multiagent Systems INTRODUCTION **Bid**ding protocols have been advocated as a valuable can also be another SCA)she has to compute a **bid** for executing the order. In order to determine the
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markets have been suggested as a solution to **resource allocation**, scheduling, and optimization problems of the utility function)which serves as the **bid**ding price, decreases with increased resource (i.e. in that it has a lower and an upper bound. 2.3 **Bids** and Auction Schemes Reallocations in
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in **bid**ding strategy, market prediction, and **resource allocation**. Entrants in 2001 demonstrated competition presents agents with difficult issues in **bid**ding strategy, market prediction, and resource auctions. In other words, the winning **bid**ders are those who place the top sixteen unit
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Rationality and Self-Interest in Peer to Peer Networks - Shneidman, Parkes (2003) (Correct) (16 citations)
peer search, routing, distributed auctions, **resource allocation**, etc.that allow nodes to behave

propagated. You then sit back, expecting many **bids**, and are surprised when you only receive three **bids**, and are surprised when you only receive three **bids** -one from each neighbor. What happened? Your iptps03.cs.berkeley.edu/final-papers/rationality.ps

The Progressive Second Price Auction Mechanism for Network.. - Lazar, Semret (1998) (Correct) (16 citations)
December 31, 1997 Keywords: **resource allocation**, auctions, game theory, mechanism design, that for practical reasons, we reduce the message **#bid#** space to two dimensions #price and quantity# in the directrevelations mechanisms. Player i's **bid** is s i =q i p i #2S i =0Q# 0 1# comet.columbia.edu/~aurel/isdg.pdf

Preventing Strategic Manipulation in Iterative Auctions: Proxy .. - Parkes, Ungar (2000) (Correct) (13 citations)
scheduling, etc. can be formulated as **resource allocation** problems, with a set of discrete items to have many computational advantages over sealed-**bid** auctions, but can present new possibilities for optimal allocations with myopic best-response **bidding** strategies more robust to manipulation. First, www.eecs.harvard.edu/econcs/pubs/iGVA00.pdf

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S. Shaheen Fatima, Michael Wooldridge

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In this paper, we present an adaptive organizational policy for multi-agent sy allows a collection of multi-agent organizations to dynamically allocate tasks to efficiently process an incoming stream of task requests. \acro{trace} is int tasks have time constraints, and environments that are subject to load variat elements: the tas ...

2 **Session 4B: multiagent resource allocation: Effort profiles in multi-agent re**

H. Van Dyke Parunak, Sven Brueckner, John Sauter, Robert Savit

July 2002 Proceedings of the first international joint conference on Autonomous a

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Multi-agent systems are particularly appropriate for resource allocation, but c requires understanding their dynamics. Concepts from statistical physics, suc problems such as constraint satisfaction, such transitions exhibit an easy-hard overconstrained problems are easier to solve than those near the transition. T in optimization probl ...

Keywords: complexity, effort profile, negotiation, phase change, phase transit

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Aram Galstyan, Shashikiran Kolar, Kristina Lerman
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In this paper we study a class of resource allocation games which are inspired a system of competitive agents that have to choose between several resource capacities. The agents using a particular resource are rewarded if their numbe and punished otherwise. Agents use a set of strategies to decide what resourc reinforcement learning scheme to update ...

Keywords: dynamical systems, game, reinforcement learning

4 A game-theoretic formulation of multi-agent resource allocation
Jonathan Bredin, Rajiv T. Maheswaran, Çagri Imer, Tamer Ba?ar, David Kotz, Da
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John Bigham, Lin Du
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A cooperative negotiation approach for the real-time control of cellular networ of the whole cellular network is improved by contracting and shaping the ante spots" and expanding adjacent cell coverage to fill in the coverage loss. The p cooperative negotiation between base stations leads to a near global optimal the context of the whole ...

Keywords: cooperative negotiation, load balancing, multi-agent systems, real

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Roger Mailler, Victor Lesser, Bryan Horling
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In this paper we present a cooperative negotiation protocol that solves a distr conforming to soft real-time constraints in a dynamic environment. Two centr allow it to operate in constantly changing conditions. First, we frame the alloc similar to a Partial Constraint Satisfaction Problem (PCSP), and use relaxation violation) free ...

Keywords: cooperative negotiation, distributed problem solving, resource allo

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Pinata Winoto, Tiffany Ya Tang
July 2002 Proceedings of the first international joint conference on Autonomous a
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In this paper, we investigate a multi-agent non-cooperative game for resourc model. Specifically, agents with common goals to maximize individual utility bid or bribe for quicker service provided by the server. Agents choose from on strategy, Nash equilibrium strategy and linear regression strategy, for their d service, it re-evaluates ...

Keywords: multi-agent system, queuing model, resource allocation, social sim

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Haksun Li, H. Durfee, Kang G. Shin
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We study how agents can cooperate to revise their plans as they attempt to e local resource capacities. An agent in a multiagent environment should in prin events as well as all events that could conceivably be caused by other agents execute such omnipotent plans are usually overwhelming, however. Thus, an and which to ignore in the mult ...

Keywords: action selection, coordination infrastructures, coordination of multi

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Spyros Lalis, Christos Nikalaou, Dimitris Papadakis, Manolis Marazakis
October 1998 Proceedings of the first international conference on Information and
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Keywords: QoS, contract bundling, multiple resources, resource management

10 MA-WATM: a new approach towards an adaptive wireless ATM network
Khaldoun Al agha, Houda Labiod
May 1999 Mobile Networks and Applications, Volume 4 Issue 2
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In a cellular multimedia network like wireless ATM (WATM), self control seem the application of DAI (distributed artificial intelligence) techniques in order t random non-uniform traffic conditions. Attempting to achieve a high network air interface BER (bit error rate), we propose to apply intelligent agent feature systems. In fac ...

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Jaime Simão Sichman, Rosaria Conte
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In this paper, we present an abstract structure called dependence graph, an e network, as proposed in [16]. While this latter can be applied to express a se this new structure can be applied to the multi-agent case. It can be used, the structures, such as groups and collectives, and may form a knowledge base fo and organisational or othe ...

Keywords: emergent organization, formalisms for agents and MAS, group dyn self-organizing systems, teams

12 The POPCORN market—an online market for computational resour
Ori Regev, Noam Nisan
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Keywords: Internet, Java, global computation, markets, resource allocation

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Tom Wagner, Valerie Guralnik, John Phelps
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This paper describes an agent application for the coordination of air-craft repa dynamic setting. The paper also presents a new algorithm for dynamic distrib compares its performance to an optimal cen-tralized service team scheduler.

Keywords: TAEMS, coordination, dynamic, intelligent agents, multi-agent syst

14 Market-based resource control for mobile agents
Jonathan Bredin, David Kotz, Daniela Rus
May 1998 Proceedings of the second international conference on Autonomous age
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15 Session 11C: decision making: Task selection problem under uncertainty a
Hosam Hanna, Abdel-Illah Mouaddib
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In this paper, we address the problem of decision-making under uncertainty f an environment where an agent has to select tasks to execute in a way which is the new challenging applications such as planetary rovers, e-commerce, co where agents are with limited resources and have to distribute and execute a model proposed in this paper, we ...

Keywords: Markov decision process, decision under uncertainty, distributed ag agents

16 Connection establishment protocol based on mutual selection by users anc
Nagao Ogino
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Keywords: connection establishment protocol, distributed resource allocation, based network control, mutual selection by users and network providers

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Wonjun Lee, Jaideep Srivastava
November 2000 Proceedings of the ninth international conference on Information a
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Keywords: distributed systems, economic framework, multimedia, quality of s

18 Challenger: a multi-agent system for distributed resource allocation
Anthony Chavez, Alexandros Moukas, Pattie Maes
February 1997 Proceedings of the first international conference on Autonomous ag
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19 Scalability and information agents
Ralph Deters
September 2001 ACM SIGAPP Applied Computing Review, Volume 9 Issue
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Having fast and dependable access to the most relevant information available competitive information-oriented society. Ensuring transparent and dependab heterogeneous, ill-structured and often distributed data and information sourc different facets. Over time a large variety of very different approaches have b competing approaches, information agents seem to be particularl ...

Keywords: deployment, information agents, scalability

20 Posters: How to calm hyperactive agents
H. Van Dyke Parunak, Sven A. Brueckner, Robert Matthews, John Sauter
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System performance in multi-agent resource allocation systems can often *imp* activity. Agents need a way to modulate their individual behavior in light of th centralized control. We illustrate the problem of hyperactive agents in two do simple, decentralized scheme, inspired by insect pheromones, enables individ system operates, and sugg ...

Keywords: adaptation, complexity, digital pheromones, dynamics, machine le

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